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U.S. ENVIRONMENTAL PROTECTION AGENCY
 POLLUTION/SITUATION REPORT
 Jacamar Fire Response - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region V

Subject: POLREP #2
 Progress
 Jacamar Fire Response
 C55Z
 Springboro, OH
 Latitude: 39.5641330 Longitude: -84.2443399

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 Matt Villicana, TT START
 Mindy Clements, U.S. EPA
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 Tim Schreadley, State Fire Marshal

From: Steven Renninger, On-Scene Coordinator
Date: 2/20/2015
Reporting Period: February 15 to February 20, 2015

1. Introduction

1.1 Background

Site Number:	C55Z	Contract Number:	
D.O. Number:	152	Action Memo Date:	
Response Authority:	CERCLA	Response Type:	Emergency
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	2/13/2015	Start Date:	2/13/2015
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account#:	

1.1.1 Incident Category

Emergency Response

1.1.2 Site Description

On Wednesday, February 4, 2015 at 10:47 a.m. the Clearcreek Fire District responded to an automatic fire alarm located at a private residence on Jacamar Court in the City of Springboro, Ohio. Upon arrival at the scene fire crews discovered a working structure fire in a single story residential house with a basement. An in-ground swimming pool is located behind the house. No additional above or below-ground structures were observed on the property. Fire department personnel worked for several hours to contain the fire and were challenged by the extremely large amount of contents inside the house. After the fire was extinguished, fire investigators began to evaluate the scene to determine where and how the fire started.

The Ohio EPA, Insurance Fire Investigation Team, and local fire department documented a large quantity of unknown chemicals in the residence. On February 9, 2015, a shock sensitive chemical ignited at the property after a pile of debris was shifted during the fire investigation. Following the chemical fire, Ohio EPA requested US EPA assistance at the Site.

The residential Site encompasses an area of approximately 2,500 square feet. A small portion of the 1,656 square foot structure remains standing. The in-ground swimming pool is more than half filled with liquid. Piles of contaminated debris are present on Site with a majority of the piles partially buried. An exclusion zone was created around the swimming pools, structural remains of the home, and burned debris piles. The site is currently delineated by a chain link fence and posted with "No Trespassing" signs.

1.1.2.1 Location

The site is located on private property on Jacamar Court in Springboro, Warren County, Ohio. The geographical coordinates are 39.5641330, -84.2443399.

The east-facing house is situated on the southern portion of a 0.55 acre lot located in a cul-de-sac. An in-ground pool is located behind the house, on the west side of the property.

The site is located in a residential area, with residences located within 200 feet to the northeast, east, and south of the site. The site is bounded to the northwest and west by a wooded area. Further northwest is a tributary that connects to ClearCreek, with residential and wooded areas beyond. Access to the site as well as adjacent and nearby properties has been granted to EPA by the respective private land owners.

1.1.2.2 Description of Threat

There are numerous containers of unknown chemicals present at the site. In an interview with a fire investigator, the property owner admitted that hazardous materials, were stored in the basement of the house. An unknown amount of chemicals were released during the fire and firefighting measures. Fire water run-off and chemicals potentially entered the swimming pool behind the house, providing the contaminated liquid route of migration to the sub-surface soil. Many containers of unknown chemicals remain on the site, buried in debris. The chemicals on the property were impacted by the fire, and therefore require specialized resources to properly and safely remove them from the site for proper off-site disposal.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

US EPA OSC Renninger, Ohio EPA OSC Dale Farmer, Ohio EPA OSC Bill Lohner, EPA's START contractor, and representatives from Warren County Emergency Services, Clearcreek Fire District, and Fire Science Investigations performed a site reconnaissance on February 10, 2015.

Numerous containers of unknown chemicals were observed throughout the site. Visible containers range in size from quart jars to half-gallon jars. Many containers are spilled, broken, or otherwise destroyed. Many containers were partially buried, with only small portions of containers visible. Many containers appear to have no, or illegible labels.

The swimming pool was observed to be partially filled and contain chemical runoff from the fire and firefighting measures.

A runoff migration pathway was observed in the northwestern portion of the site. The pathway appears to lead down an embankment toward a stream. The terrain around the stream is wooded and steep.

Debris piles and other potential shock sensitive chemicals in the debris precluded any sampling activities and air monitoring activities within the building footprint. Approximately 45 containers of chemicals were segregated in the driveway of the house by Clearcreek Fire District, having been encountered and removed from debris piles during the initial portion of the fire investigation.

Elevated levels of volatile organic compounds (VOCs) were detected around debris piles throughout the site and near the chemical containers segregated in the driveway.

A chain link fence surrounds the site, including the remaining structure, the debris piles, and the swimming pool. A strong chemical odor is present within the building footprint. Air monitoring was conducted around the perimeter of the site. No deflections from background levels were observed outside of the fence line.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

There are numerous containers of unknown chemicals present at the site within the fire debris. In an interview with a fire investigator, the homeowner admitted that hazardous materials, including solvents and lab chemicals, were stored in the basement of the house.

An unknown amount of chemicals were released during the fire and firefighting measures. Chemical runoff traveled overland potentially infiltrating surface soil and surface water in the process. Chemical spillage also entered the swimming pool behind the house, providing the contaminated liquid route of migration to the sub-surface soil.

Many containers of unknown chemicals remain on the site, buried in debris. The chemicals on the property were impacted by the fire, and therefore require specialized resources to properly and safely remove them from the site for proper off-site disposal. On February 11, 2015, the property owner and insurance informed EPA that they did not have the resources to conduct the removal of chemicals and contaminated debris from the property for off-site disposal. In consideration of these factors, the EPA initiated an emergency response to address the potential risk of explosion, fire, and release of hazardous substances to the environment.

A unified command has been established with EPA, Ohio EPA, Clearcreek Fire District, Springboro Police Department, Warren County Combined Health District, Warren County Emergency Management Agency, and the City of Springboro. Coordinating agencies can be found in Section 3. Unified Command meetings were conducted on February 11, 13, and 17, 2015 at the Springboro City Building. Media briefings were held on February 13 and February 17, 2015. A public meeting with nearby property owners was held on February 17, 2015.

EPA initiated mobilization of equipment and personnel on February 13, 2015. An Emergency Contingency Plan for the site was finalized on February 13, 2015. Removal of the remaining structure and segregation of debris began on February 17, 2015. Air monitoring is being conducted at the site within the exclusion zone, at the site perimeter, and on adjacent properties. A security guard is present at the site during all non-working hours. An office trailer and generator were mobilized to the site on February 13, 2015.

2.1.2 Response Actions to Date

February 16, 2015: EQM (EPA removal contractor) crew continued mobilization of equipment and personnel. The HASP was finalized. A temporary storage tank was delivered to the site. Approximately 40 chemical containers previously segregated in the driveway were stabilized. EPA START continued mobilization, including delivery and setup of VIPER for air monitoring. The Air Monitoring Plan was finalized. Air monitoring continued by EPA START around the site perimeter. No deflections from background readings were observed outside of the fence line. EPA and Butler County Sheriff's Office Bomb Squad finalized an Explosives Contingency Plan for the site. Off-shift site security continued.

February 17, 2015: EQM crew continued mobilization of equipment and personnel. An excavator, skid steer, and roll-off box were delivered to the site. EQM crew began stabilization and segregation of fire debris and chemicals. Approximately 75 chemical containers were removed from the debris area for staging. The following chemical labels were documented on containers: Sodium bisulfate, Liquid nitrogen, Dibutylamine, DL-Methionine, Aluminum phosphate, Sulfur, Kollidon 30, 1-Octene, Propionaldehyde, Cycloaliphatic epoxide, and Propionic acid. EPA START continued air monitoring and VIPER setup and deployment. EPA START performed air monitoring around the site perimeter and at four fixed locations within the site boundary. No deflections from background readings were observed outside of the fence line. Off-shift site security continued. EPA CIC Ginny Narsete mobilized to the site on Feb 17 to coordinate with participating entities on public outreach and communications. A Unified Command briefing was held at the Springboro City Building at 1600 hours. The Warren County Combined Health District issued a notice officially condemning the residence as a public health hazard unfit for human habitation due to chemical storage in the home, and chemical and structural instability created by the fire. Warren County EMA drafted an Evacuation Plan for the area surrounding the site. Unified Command conducted a meeting with property owners on Jacamar Court at 1900 hours at Springboro City Building. EPA obtained access from neighboring property owners to perform air monitoring and collect samples as deemed necessary. Unified Command held a media briefing in the Springboro City Building at 2000 hours.

February 18, 2015: EQM crew continued stabilization and segregation of chemicals and fire debris. Two roll-off boxes were transported for off-site disposal. Approximately 150 chemical containers were removed from the debris for staging. The following chemical labels were documented on containers: mercury, methanol, 4-acetoxystyrene, pyrophoric liquid (modified phosphine derivative), poly(p-hydroxystyrene), D-(+)-alpha-phenylethylamine, ferric chloride, sodium butyrate solution, R (-) mandelic acid, acetone, toluene, and kerosene. Air monitoring continued by EPA START around the site perimeter, at four fixed locations within the site boundary, and throughout the hot zone. No deflections from background readings were observed outside of the fence line. Off-shift site security continued.

February 19, 2015: EQM crew continued stabilization and segregation of chemicals and fire debris. Three roll-off boxes were transported for off-site disposal. Approximately 200 chemical containers were removed from the debris for disposal. The following chemical labels were documented on containers: acetone, methanol, metal alkyl solution, kerosene, Vitride reducing agent, hydrochloric acid. Air monitoring continued by EPA START at four fixed locations within the site perimeter, at two locations on adjacent properties, and throughout the hot zone. No deflections from background readings were observed outside of the fence line. Off-shift site security continued.

February 20, 2015: EQM crew continued stabilization and segregation of chemicals from fire debris. Two roll-off boxes were transported for off-site disposal. Approximately 75 chemical containers were removed from the debris for disposal. The following chemical labels were documented on containers: acetylene, propane, and nitrogen. EPA START continued air monitoring at four fixed locations within the site perimeter, at two locations on adjacent properties, and throughout the debris. No deflections from background readings were observed outside of the fence line. EPA START collected 24-hour air samples for laboratory analysis from one location in the hot zone and two locations on adjacent properties. Off-shift site security continued. Clearcreek Fire District formally requested US EPA assistance to remove contaminated debris and unknown containers from the site.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The private property owner has stated that he is financially unable to perform the removal.

The private property owner's insurance company has stated that they cannot cover the cost of clean-up under the homeowner's insurance policy.

2.1.4 Progress Metrics

No pertinent information to report at this time.

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
Non Haz Debris	Solid	140 cubic yards	152001 - 152007	D Landfill	Landfill

2.2 Planning Section**2.2.1 Anticipated Activities**

Anticipated removal activities for the Site include, but are not limited to, the following:

- EPA will continue to lead removal activities at the Site;
- Finalize Evacuation Plan with Unified Command;
- Continue to implement the HASP, updating as necessary;
- Continue to implement the Air Monitoring Plan, updating as necessary;
- Continue to conduct comprehensive air monitoring for Site workers and community protection;
- Initiate containerization of swimming pool liquid;
- Continue segregation and inventory of hazardous materials stored at the site;
- Continue to stabilize hazardous materials pending testing and disposal;
- Continue to segregate contaminated debris and hazardous materials into hazard categories;
- Continue to sample for hazard categorization and disposal profiling;
- Continue to consolidate, repack, over-pack, and lab-pack materials;
- Continue off-site disposal, treatment, or recycling of materials;
- Additional cleanup activities that may include debris removal as necessary to provide a safe and efficient work environment, excavation of contaminated soils, as necessary, decontamination of personnel and equipment;
- Continue to coordinate with Local, County, State, Federal, and private entities via Unified Command. Next Unified Command Meeting is scheduled for February 23 at 1500 hours;
- Continue to coordinate with property owners on Jacamar Court and schedule future meetings as necessary;
- Schedule future Unified Command media briefings as necessary.

2.2.1.1 Planned Response Activities

See Section 2.2.1.

2.2.1.2 Next Steps

See Section 2.2.1.

2.2.2 Issues

- News (media) briefings will be conducted on an as-needed basis
- Unified Command meetings will be conducted on an as-needed basis

2.3 Logistics Section

Logistical support is being provided by EPA contractors. Response equipment, supplies and personnel initiated mobilization on February 13, 2015

The City of Springboro has provided use of their Municipal Building for Unified Command meetings and support.

The City of Springboro has identified Jacamar Court as "No Parking" with street signs. Street signs have been posted in front of Site office trailer.

Insurance Company erected fence to surround debris piles on property.

Health Department posted property "Unfit for Human Habitation" on February 13, 2015

2.4 Finance Section

2.4.1 Narrative

EPA is funding the removal of chemicals and contaminated debris from the property.

The accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$100,000.00	\$37,524.63	\$62,475.37	62.48%
START	\$25,000.00	\$15,200.00	\$9,800.00	39.20%
Intramural Costs				
USEPA - Direct	\$10,000.00	\$5,200.00	\$4,800.00	48.00%
Total Site Costs				
	\$135,000.00	\$57,924.63	\$77,075.37	57.09%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

OSC Renninger is serving as the Safety Officer with START and EQM each providing an Assistant Safety Officer.

EQM prepared a site-specific Health & Safety Plan.

Hot zone and Perimeter air monitoring being conducted by EPA START.

2.5.2 Liaison Office

Ginny Narsete, EPA CIC, is serving as liaison officer.

2.5.3 Information Officer

Unified Command Media Briefings were conducted on February 13 and February 17. The next media briefing will be scheduled as needed.

3. Participating Entities

3.1 Unified Command

Unified Command has been established with EPA, Ohio EPA, Clearcreek Fire District, Springboro Police Department, City of Springboro, Warren County Combined Health District, Warren County EMA

3.2 Cooperating Agencies

The following local, county, state, and federal agencies are providing support:

Greater Cincinnati Hazardous Materials Unit
Warren County Prosecutor's Office
Butler County Sheriff's Office Bomb Squad
State Fire Marshal's Office
FBI

4. Personnel On Site

The following personnel were on-site at various times throughout this reporting period:

US EPA - 3 (OSC, ERT, CIC)

Ohio EPA - 4

START - 3

ERRS - 5 (including off-shift security)

5. Definition of Terms

CIC	Community Involvement Coordinator
EMA	Emergency Management Agency
EQM	Environmental Quality Management, Inc
ERRS	Emergency and Rapid Response Services
HASP	Health and Safety Plan
START	Superfund Technical Assistance and Response Team
VOCs	Volatile Organic Compounds

6. Additional sources of information

6.1 Internet location of additional information/report

<http://www.epaosc.org/jacamarfirerresponse>

6.2 Reporting Schedule

Pollution Report #3 will be issued during the week of February 23, 2015.

7. Situational Reference Materials

All situational reference materials will be uploaded to <http://epaosc.org/jacamarfirerresponse>.